

## **Contour Buffer Strips**

### Conservation Practice Job Sheet

PA332



#### **Definition**

Contour buffer strips are narrow strips of perennial vegetation interspersed with wider cultivated strips that are farmed on the contour. Vegetation in the strips consists of adapted species of grasses or a mixture of grasses and legumes.

#### **Purpose**

Contour buffer strips can significantly reduce sheet and rill erosion. Strips slow runoff and trap sediment. Sediment, nutrients, pesticides, and other contaminants are removed from the runoff as they pass through the buffer strip. Buffer strips also provide food and nesting cover for wildlife.

#### Where used

Contour buffer strips are used on cropland subject to sheet and rill erosion. They are most suitable on uniform slopes ranging from 4 to 8 percent. These narrow strips of permanent vegetation are not part of the normal crop rotation. Contour buffer strips are also an excellent filter for runoff and will help improve surface water quality. The practice is more difficult to establish on undulating to rolling topography because of the difficulty of maintaining parallel strip boundaries across the hill slope or staying within row grade limits.





Requirements for establishing contour buffer strips include a minimum buffer strip width, with strips placed along the contour and farming operations that follow the approximate contour grade. Cultivated strip widths are determined by such variables as slope, soil type, field conditions, climate, and erosion potential. Cultivated strip widths may be adjusted to accommodate machinery widths. Buffer strips can be used as turn areas if care is taken to minimize disturbance to soil and vegetation. Waterways or diversions are needed where runoff collects and concentrated flow erosion is a problem. Contour buffer strips can be established between terraces to enhance treatment of the hill slope. For reducing sheet and rill erosion, buffer strip width must be at least 15 feet for grasses or grass-legume mixtures and at least 30 feet for legumes alone.

#### Resource management system

Contour buffer strips are normally established as part of a resource management system for a conservation management unit. They are concurrently applied with other practices, such as residue management, conservation crop rotation, and contour farming. Cultivated strip widths are determined by such variables as slope, soil type, field conditions, climate, and erosion potential. Species to use for contour buffer strips depend on soil types, climate, and use by wildlife.

#### Wildlife

When planning for wildlife, adjust contour buffer strip widths and plant species to meet the needs of the target wildlife species. Increase widths to 30 feet or wider depending on the requirements for nesting and escape cover of the target wildlife species. Avoid mowing during nesting periods.

#### **Operation and maintenance**

Mow (harvesting is optional) buffer strips to maintain appropriate vegetative density and height for trapping sediment. Fertilize buffer strips according to soil test results every four years. Spot seed or renovate buffer strip areas damaged by herbicides, equipment, or unusual rainfall events. Redistribute sediment accumulations as needed to maintain uniform sheet flow along the upper edge of the buffer strips.

#### **Specifications**

Site-specific requirements are listed on the specifications sheet. Additional provisions are entered on the job sketch sheet. Specifications are prepared in accordance with the NRCS Field Office Technical Guide. See practice standard Contour Buffer Strips, code 332.

Contour Buffer Strips – Job S					
Landownernumber		Field			
Purpose (check all that apply)  ☐ Reduce sheet and rill erosion		Peduce transport of s	ediment and other v	vater-horne	
☐ Enhance wildlife (target species:	<ul> <li>Reduce transport of sediment and other water-borne contaminants downslope, on-site or off-site</li> </ul>				
Layout	Strip 1	Strip 2	Strip 3	Strip 4	
Cultivated strip width (feet)	·	·			
Buffer strip width (feet)					
Buffer strip length (feet)					
Area in buffer strip (acres)					
Plant Materials (species/cultivars)		Seeding Rate (lbs/acre of pure live seed)		Seeding Date	
Strip 1:	50	seu)			
Strip 2:					
Strip 3:					
Strip 4:					
•					
Site Preparation					
Apply lime and fertilizer as indicated by soil	testing. Additional requi	rements:			
Planting Methods					
Establish vegetation according to the speci	ified seeding rate. See	d denth varies by seas	on and species use	d See Aaranamy	
Guide for specific information.	The seeding Ture. See	a depini varies by seas	on and species asec	a. See rigi onomy	
Operation and Maintenance					
Maintain original width and length of conto					
plant density and vigorous plant growth. In Shut off pesticide sprayers when turning of			diment, and repair	eroding areas.	

# Contour Buffer Strips - Job Sheet If needed, an aerial view or a side view of the practice can be shown below. Other relevant information, complementary practices and measures, and additional specifications may be included. \_\_ ft. (NA indicates sketch not to scale: grid size=1/2" by 1/2") **Additional Specifications and Notes:**

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